



UNITED STATES PATENT AND TRADEMARK OFFICE

on

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/529,960	03/31/2005	Peter J Slikkerveer	NL02 0941 US	7455

24738 7590 09/05/2006

PHILIPS ELECTRONICS NORTH AMERICA CORPORATION
INTELLECTUAL PROPERTY & STANDARDS
1109 MCKAY DRIVE, M/S-41SJ
SAN JOSE, CA 95131

EXAMINER

DUDEK, JAMES A

ART UNIT PAPER NUMBER

2871

DATE MAILED: 09/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/529,960	Applicant(s) SLIKKERVEER ET AL.	
	Examiner James A. Dudek	Art Unit 2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 3/1/05 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>3/2005</u> | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Information Disclosure Statement

The information disclosure statement filed 3/31/05 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 and 7-8 are rejected under 35 U.S.C. 102(b) as being anticipated by US 5734513 A (513).

Per claim 1, 513 teaches a display device comprising an assembly of at least two display panels [20] each display panel having a front surface and a back surface [inherent] at least parts of the front surfaces in a first position forming a display surface the back surfaces being mechanically coupled to a flexible carrier [coupled to flexible layer 13].

Per claim 2, 513 teaches a display device according to claim 1 the flexible carrier belonging to the group comprising foldable carriers, bendable carriers, rollable carriers, stretchable carriers, and extendable carriers [the flexible layer 13 is bendable].

Per claim 3, 513 teaches a display device according to claim 1 the flexible carrier comprising sub-carriers being interconnected via joints [see hinging means 21].

Per claim 7, 513 teaches display device according to claim 1 the flexible carrier being zigzag foldable [the panel fold in half, thus having both a zig and a zag].

Per claim 8, 513 teaches a display device according to claim 7 the flexible carrier being zigzag foldable in one direction the pitch of zigzag in the unfolded position being substantially

equal to the dimension of the corresponding panel in said direction [as the panels 20 are fairly rigid, they would create the minimum pitch, thus the claim is anticipated].

Claims 4-6 and 9-18 are rejected under 35 U.S.C. 102(b) as being anticipated by US 5128662 A (662).

Per claim 4, 662 teaches a display device according to claim 1 at least one display panel being slidable with respect to the carrier [see figure 3, the top carrier is slidable with respect to the bottom panels].

Per claims 5-6, 662 teaches a display device according to claim 1 in which in said first position adjacent panels have an overlap, the overlap comprising an interconnecting part for electrical interconnections [the connectors [the connectors 90 overlap the upper and lower panels and the connector are considers part of the panel].

Per claim 9, 662 teaches a display device according to claim 7 the flexible carrier being rollable

or foldable in a second direction substantially transverse to the one direction [the top and bottom portion can fold vertically and the left/right portion fold horizontally].

Per claim 10, 662 teaches a display device according to claim 9 the flexible carrier being zigzag foldable in the second direction the pitch of zigzag in the unfolded position being substantially equal to the dimension of the corresponding panel in said second direction [as the panels 20 are fairly rigid, they would create the minimum pitch, thus the claim is anticipated].

Per claim 11-12, 15-16, 662 teaches display device according to claim 7 the flexible carrier having a first sub-carrier carrying the display panels at a first front surface [top portion] and a second sub-carrier [bottom portion], both sub-carriers being zigzag foldable and having the same pitch of the zigzag in a first direction, the sub-carriers being coupled to each other at the area of folding areas of the zigzags [as each of the four panels is the same size, they each would create the same pitch, thus the claim is anticipated].


Per claim 13 and 17, 662 teaches a display device according to claim 12 the second sub-carrier having connecting tabs at the folding areas of the zigzags [see tab 90].

Per claim 14 and 18, 662 teaches isplay device according to claim 13 the connecting tabs extending over at most half the pitch of a zigzag folding in a second direction transverse to the first direction [as shown in the figure, the tab extends less than half of the bottom portion].

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Dudek whose telephone number is 571-272-2290. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


James A. Dudek
Primary Examiner
Art Unit 2871